1653



1600

P#16

RAW SEQUENCE LISTING DATE: 10/17/2002 PATENT APPLICATION: US/09/043,944 TIME: 10:07:23

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3 <110> APPLICANT: Greenwald, Iva
 6 <120> TITLE OF INVENTION: IDENTIFICATION OF SEL 12 AND USES THEREOF RECEIVED
 8 <130> FILE REFERENCE: 0575/48231-A-PCT-US
                                                                         OCT 2 5 2002
10 <140> CURRENT APPLICATION NUMBER: 09/043,944
11 <141> CURRENT FILING DATE: 1998-03-27
                                                                      TECH CENTER 1600/2900
13 <150> PRIOR APPLICATION NUMBER: PCT/US96/15727
14 <151> PRIOR FILING DATE: 1996-09-27
16 <150> PRIOR APPLICATION NUMBER: 60/004,387
17 <151> PRIOR FILING DATE: 1995-09-27
19 <160> NUMBER OF SEQ ID NOS: 27
21 <170> SOFTWARE: PatentIn version 3.1
23 <210> SEQ ID NO: 1
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24 <211> LENGTH: 461
25 <212> TYPE: PRT
26 <213> ORGANISM: C. elegans
28 <220> FEATURE:
29 <221> NAME/KEY: misc_feature
30 <223> OTHER INFORMATION: Fig. 1A
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43 Glu Asp Glu Asn Val Val Glu Glu Ala Glu Leu Lys Tyr Gly Ala Ser
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47 His Val Ile His Leu Phe Val Pro Val Ser Leu Cys Met Ala Leu Val
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51 Val Phe Thr Met Asn Thr Ile Thr Phe Tyr Ser Gln Asn Asn Gly Arg
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                                           75
55 His Leu Leu Ser His Pro Phe Val Arg Glu Thr Asp Ser Ile Val Glu
59 Lys Gly Leu Met Ser Leu Gly Asn Ala Leu Val Met Leu Cys Val Val
60
63 Val Leu Met Thr Val Leu Leu Ile Val Phe Tyr Lys Tyr Lys Phe Tyr
                               120
                                                   125
67 Lys Leu Ile His Gly Trp Leu Ile Val Ser Ser Phe Leu Leu Leu Phe
71 Leu Phe Thr Thr Ile Tyr Val Gln Glu Val Leu Lys Ser Phe Asp Val
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                                           155
75 Ser Pro Ser Ala Leu Leu Val Leu Phe Gly Leu Gly Asn Tyr Gly Val
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79 Leu Gly Met Met Cys Ile His Trp Lys Gly Pro Leu Arg Leu Gln Gln
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RAW SEQUENCE LISTING DATE: 10/17/2002 PATENT APPLICATION: US/09/043,944 TIME: 10:07:23

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87	Tyr	Leu	Pro	Glu	Trp	Thr	Val	Trp	Phe	Val	Leu	Phe	Val	Ile	Ser	Val
88	-	210			•		215	-				220				
91	Trp	Asp	Leu	Val	Ala	Val	Leu	Thr	Pro	Lvs	Gly	Pro	Leu	Arq	Tyr	Leu
92	_	-				230				•	235			-	•	240
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96					245		,			250					255	
	Tvr	Ser	Ser	Glv		Ile	Tvr	Pro	Tvr		Leu	Val	Thr	Ala	Val	Glu
100	_			260			- 1 -		265					270		
		Thr	Thr			Aro	Glu	ı Pro			Ser	Asr	Ser			Ser
104			275					280					285			
		· Ala			Glv	Glu	Ala			Ser	Ser	Glu			Lvs	Arg
108		290			, 011	020	295		. 012			300			1-	
				Lvs	Aro	Tle			Lvs	. Val	Glr			Ser	Asn	Thr
	305	_	, , , , ,	-		310		, 01.		, , 41	315		, 010	. 501		320
					Thr			Ser	· Glv	. Val			Glu	Δτα	Glu	Leu
116	1 111	7110			325			· DCI	017	330	_	, , ,	. 0.10	9	335	
	Δla	Δ1=	. Glu	Δro			. Val	Gln	Δsr			Dhe	Hic	. Ara		Glu
120	лти	. Alc	COLU	340		, 1111	Val	. 611	345		. ASI	ı ı iic	. 1112	350		GIU
	Glu	Gla	. Glu			. Val	T.170	. T.a.ı			G15	, Δer	Dhe			Tyr
124	Giu	. GIC	355	_	GIY	vai	. шуз	360	_	пси	. Gry	usb	365		· FIIC	. тут
	Sar	. Val			G13	Tare	λla			• Пттт	Dhe	λer			Thr	Thr
128	DCI	370		пси	. Oly	шуы	375		DCI		1110	380		ASI	. 1111	1111
	T۱۵			• Тълг	· Val	Δla			T16	Glv	. T.e.ii			Thr	· T.a.ı	Val
	385		. Cyr		, 41	390		. LCu		. 017	395	_	1110		БСС	400
			ıΔla	Va l	Phe			ιΔla	T.e.11	Pro			Gln	Pho	Pro	Phe
136	Lou			. , ,	405	_	*****	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		410		. Dea	. 01.		415	
	Ser	Pro	Asp	Ser			Thr	. Phe	Va1			Glv	Ser	Ser		His
140	001			420					425			. 017	501	430		
	Leu	Leu	His			Leu	Lvs	Ser			Tvr	· Tle	Asn			Phe
144			435	_				440		-1-	-1-		445			
	Leu	Pro			Cvs	Ile	Ile	Asn		Ser	Ile	· Ile				
148		450			-1-		455					460				
	<21		EQ I	D NO	: 2											
			ENGT													
			YPE:													
			RGAN			an										
			'EATU													
			AME/			c fe	atur	·e								
								g. 2	A SI	82						
			EQUE					- ٠٠		-						
						Ala	Pro	Leu	Ser	Тvr	Phe	Gln	Asn	λla	Gln	Met
164			0		5					10		· 01			15	1100
		Glu	Asp	Asn	_	Len	Ser	Asn	Thr		Ara	Ser	Gln	Asn	Asp	Asn
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172	3		35					40	9	3			45			
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/043,944

DATE: 10/17/2002 TIME: 10:07:23

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183 184	His	Val	Ile	Met	Leu 85	Phe	Val	Pro	Val	Thr 90	Leu	Cys	Met	Val	Val 95	Val
187 188	Val	Ala	Thr	Ile 100	Lys	Ser	Val	Ser	Phe 105	Tyr	Thr	Arg	Lys	Asp 110	Gly	Gln
191 192	Leu	Ile	Tyr 115	Thr	Pro	Phe	Thr	Glu 120	Asp	Thr	Glu	Thr	Val 125	Gly	Gln	Arg
195 196	Ala	Leu 130	His	Ser	Ile	Leu	Asn 135	Ala	Ala	Ile	Met	Ile 140	Ser	Val	Ile	Val
	Val 145	Met	Thr	Ile	Leu	Leu 150	Val	Val	Leu	Tyr	Lys 155	Tyr	Arg	Cys	Tyr	Lys 160
203 204	Val	Ile	His	Ala	Trp 165	Leu	Ile	Ile	Ser	Ser 170	Leu	Leu	Leu	Leu	Phe 175	Phe
207 208	Phe	Ser	Phe	Ile 180	Tyr	Leu	Gly	Glu	Val 185	Phe	Lys	Thr	Tyr	Asn 190	Val	Ala
211 212	Val	Asp	Tyr 195	Val	Thr	Val	Ala	Leu 200	Leu	Ile	Trp	Asn	Phe 205	Gly	Val	Val
215 216	Gly	Met 210	Ile	Ser	Ile	His	Trp 215	Lys	Gly	Pro	Leu	Arg 220	Leu	Gln	Gln	Ala
	Tyr 225	Leu	Ile	Met	Ile	Ser 230	Ala	Leu	Met	Ala	Leu 235	Val	Phe	Ile	Lys	Tyr 240
223 224	Leu	Pro	Glu	Trp	Thr 245	Ala	Trp	Leu	Ile	Leu 250	Ala	Val	Ile	Ser	Val 255	Tyr
228		Leu		260					265	_			_	270		
232		Thr	275			_		280					285			-
235 236	Ser	Ser 290	Thr	Met	Val	Trp	Leu 295	Val	Asn	Met	Ala	Glu 300	Gly	Asp	Pro	Glu
	Ala 305	Gln	Arg	Arg	Val	Ser 310	Lys	Asn	Ser	Lys	Tyr 315	Asn	Ala	Glu	Ser	Thr 320
244		Arg			325					330		_	_	_	335	
248		Glu		340				-	345				_	350		-
251 252	Ser	Thr		Glu											Ser	Ile
256		370					375					380		_		Gly
260	385					390					395					Ala 400
264		Gly			405					410					415	
268		Leu		420					425					430		
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RAW SEQUENCE LISTING DATE: 10/17/2002 PATENT APPLICATION: US/09/043,944 TIME: 10:07:23

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272
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     312 Asn Thr Leu Ile Met Ile Ser Val Ile Val Val Met Thr Ile Phe Leu
     313 65
                             70
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     316 Val Val Leu Tyr Lys Tyr Arg Cys Tyr Lys Phe Ile His Gly Trp Leu
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     320 Ile Met Ser Ser Leu Met Leu Phe Leu Phe Thr Tyr Ile Tyr Leu
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     324 Gly Glu Val Leu Lys Thr Tyr Asn Val Ala Met Asp Tyr Pro Thr Leu
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RAW SEQUENCE LISTING DATE: 10/17/2002 PATENT APPLICATION: US/09/043,944 TIME: 10:07:23

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		Leu	ASP	СТУ	Pne		ASII	GTÀ	vai	GIY		тте	Leu	var	reu	Gly
365		77- 1	a	Dh.	т1.	70	T		D1	77 1	75	Dh.		Dl	3	80
	Cys	vaı	ser	Pne		мет	Leu	Ala	Pne		Leu	Pne	Asp	Phe	_	Arg
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381	_	130	_		_	_	135	_			_	140	_			
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388	Ser	Leu	Ile	Leu		Gln	Ile	Phe	Val		Thr	Asn	Cys	Ser	Leu	Ile
389		*			165					170					175	
392	Ser	Val	Phe	Tyr	Leu	Arg	Val	Phe	Pro	Ser	Lys	Thr	Thr	Trp	Phe	Val
393				180					185					190		
396	Leu	Trp	Ile	Val	Leu	Phe	Trp	Asp	Leu	Phe	Ala	Val	Leu	Ala	Pro	Met
397			195					200					205			
400	Gly	Pro	Leu	Lys	Lys	Val	Gln	Glu	Lys	Ala	Ser	Asp	Tyr	Ser	Lys	Cys
401		210			•		215					220				
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409					245					250					255	
412	Arg	Thr	Val	Lys	Gln	Thr	Ile	Glu	Tyr	Tyr	Thr	Lys	Arg	Glu	Ala	Gln
413				260					265					270		
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417			275					280	-			-	285			
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421		290					295					300				
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428	Asp	Glu	Ser	Asp	Thr	Ser	Glu	Thr	Ser	Ser	Gly	Ser	Ser	Asn	Leu	Ser
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433			-	340					345			-		350		
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	Pro	Asn	Asn	Asp	Lvs	Arg	Pro		Thr	Ala	Ala	Asp		Leu	Asn	Asp
441		370			-1-		375					380				L
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445	-				,	390	1		1		395			-1-		400
		Ile	Glv	Gln	Ala		Ala	Ser	Glv	Cvs		Phe	Ala	Val	Ile	
449			U-1	0	405				4-1	410				,	415	501
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RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/09/043,944

DATE: 10/17/2002 TIME: 10:07:24

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Seq#:3; Xaa Pos. 11